



- What are vital statistics?
- How can this data be useful?
- How can I find this information?

### VITAL STATISTICS AND VITAL RECORDS

- Data comes from Vital Records and certificates
- Birth
- Abortion
- Death
- Fetal/Infant Death
- Marriage
- Divorce













## MISSOURI VITAL STATISTICS

- Annual publication (mandated by statute)
- Usually published in the fall of the following year
- Goes back to 1911
- 42 tables
- Appendix (long, but incredibly useful)



#### Graph A. Live Birth and Death Rates per 1,000 Population: Missouri, 1911-2018\*

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18.6 8.7 0.6

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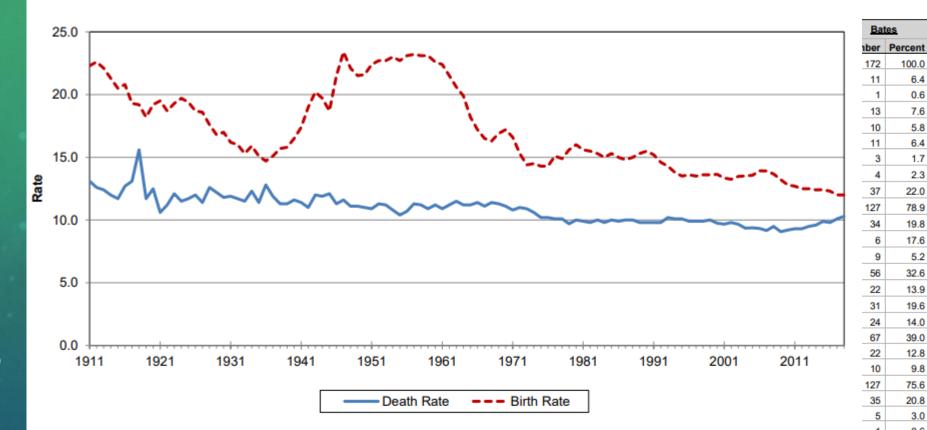
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### BIRTH

Tables 5A-10D



	R	<u>ate</u>		R	ate		Rate			R	<u>ate</u>
Year	Birth	Death	Year	Birth	Death	Year	Birth	Death	Year	Birth	Death
1911	22.3	13.1	1945	18.7	12.1	1980	16.0	10.0	2015	12.4	9.9
1915	20.5	11.7	1950	21.6	11.0	1985	15.3	10.0	2016	12.3	9.8
1920	19.2	12.5	1955	22.7	10.4	1990	15.5	9.8	2017	12.0	10.1
1925	19.4	11.7	1960	22.6	11.2	1995	13.5	10.1	2018	12.0	10.3
1930	17.0	11.8	1965	18.2	11.2	2000	13.6	9.8			
1935	15.1	11.4	1970	17.2	11.1	2005	13.6	9.4			
1940	16.5	11.6	1975	14.3	10.2	2010	12.8	9.2			

<sup>1945-2018</sup> resident events \*1911-1944 recorded events

### ABORTION

• Tables 11-15

Table 12B. Recorded Abortions by Race, Age, and Type of Procedure by Weeks of Gestation: Missouri, 2018

					Wee	ks of Gesta	tion_			
	Total	Under 9	9-10	11-12	13-14	15-16	17-19	20	21 and Over	Unknown
State Total	2,910	1,210	610	446	215	167	154	51	57	0
Patient's Race										
White, Non-Hispanic	1,232	530	237	189	89	60	68	22	37	0
Black, Non-Hispanic	1,378	526	321	220	107	91	70	25	18	0
Other, Non-Hispanic	219	112	34	26	17	15	11	2	2	0
Unknown, Non-Hispanic	12	5	2	3	0	0	1	1	0	0
Hispanic, Any Race	69	37	16	8	2	1	4	1	0	0
Patient's Age										
Under 15	14	7	1	1	2	2	1	0	0	0
15	12	2	5	3	0	1	0	1	0	0
16	20	2	4	8	3	1	2	0	0	0
17	48	18	10	10	8	0	2	0	0	0
18	86	36	17	13	6	6	5	2	1	0
19	120	46	35	22	5	7	3	0	2	0
20-24	861	360	167	133	70	52	54	15	10	0
25-29	861	362	187	121	60	50	50	14	17	0
30-34	542	229	125	77	28	36	20	12	15	0
35-39	272	119	46	48	25	8	13	5	8	0
40 and Over	73	29	13	10	7	4	4	2	4	0
Unknown	1	0	0	0	1	0	0	0	0	0
Type of Procedure										
Curettage	2,047	937	539	446	123	2	0	0	0	0
Intrauterine Instillation	1	0	0	0	0	0	0	0	1	0
Hysterotomy/Hysterectomy	1	0	0	0	0	0	1	0	0	0
Laminaria D & E	501	0	0	0	91	163	149	47	51	0
Medical/Nonsurgical	359	273	71	0	1	2	3	4	5	0
Unknown	1	0	0	0	0	0	1	0	0	0
Other	0	0	0	0	0	0	0	0	0	0

Graph D Recorde Resident \*Estimat under Vi

### Table 28. Resident Deaths by Selected Variables by Determination of Tobacco Use Contributing to Cause of Death: Missouri, 2018

### DEATH

• Tables 18-30

cau		Tobac	co Use Con	tributed to	Death		Percen	tage	
terod	Total	Yes	Probably	No	Unknown	Yes	Probably	No	Unknown
State Total	63,110	6,838	3,580	29,915	22,777	10.8	5.7	47.4	36.1
Gender									
Color Male	32,343	4,036	2,141	14,209	11,957	12.5	6.6	43.9	37.0
Panci	30,767	2,802	1,439	15,706	10,820	9.1	4.7	51.0	35.2
Decedent's Race									
Breas Cervi White Non-Hisp	54,692	6,171	3,176	25,543	19,802	11.3	5.8	46.7	36.2
Prost Black Non-Hisp	6,940	575	330	3,568	2,467	8.3	4.8	51.4	35.5
Jrina Other Non-Hisp*	805	43	38	442	282	5.3	4.7	54.9	35.0
Hispanic, Any Race	624	43	33	349	199	6.9	5.3	55.9	31.9
Decedent's Age									
Under 35	2,921	28	16	2,374	503	1.0	0.5	81.3	17.2
2hein 35-44	1,870	88	63	1,181	538	4.7	3.4	63.2	28.8
45-54	3,661	435	217	1,693	1,316	11.9	5.9	46.2	35.9
55-64	8,712	1,469	659	3,217	3,367	16.9	7.6	36.9	38.6
rebri 65-74	12,167	2,062	964	4,501	4,640	16.9	7.9	37.0	38.1
75-84	15,280	1,879	1,030	6,581	5,790	12.3	6.7	43.1	37.
ronic 85+	18,499	877	631	10,368	6,623	4.7	3.4	56.0	35.
Underlying Cause of Death									
Heart Disease	14,888	1,403	821	6,199	6,465	9.4	5.5	41.6	43.4
phrit Cancer	13,038	2,261	1,081	5,253	4,443	17.3	8.3	40.3	34.1
ngerLung Cancer	3,559	1,549	558	300	1,152	43.5	15.7	8.4	32.4
Other Cancer	9,479	712	523	4,953	3,291	7.5	5.5	52.3	34.7
Ohronic lower respiratory disease	3,978	1,658	577	472	1,271	41.7	14.5	11.9	32.0
Inter Motor Stroke	3,039	174	133	1,475	1,257	5.7	4.4	48.5	41.4
Calls Unintentional injuries	3,975	103	51	2,913	908	2.6	1.3	73.3	22.8
Accid Alzheimer's disease	2,640	27	31	1,762	820	1.0	1.2	66.7	31.1
Other Diabetes mellitus	1,606	197	107	723	579	12.3	6.7	45.0	36.1
Influenza and pneumonia	1,477	97	77	761	542	6.6	5.2	51.5	36.
othe Nephritis and nephrosis	1,504	66	52	712	674	4.4	3.5	47.3	44.8
Other	16,965	852	650	9,645	5,818	5.0	3.8	56.9	34.3

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# FETAL/INFANT DEATH

• Tables 22A-25

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### Table 23. Resident Infant Deaths and Rates per 1,000 Live Births by Cause of Death by Race and by Age at Death: Missouri, 2018

		Number	Rate	Neonatal Deaths	Post- Neonatal Deaths	Under 1 Hour	Over 1 Hour, < 1 Day	Over 1 Day, < 7 Days	Over 7 Days, < 28 Days	Over 28 Days, < 3 Months	Over 3 Months, < 6 Months	Over 6 Months, < 1 Year
All Causes	White	290	5.4	166	124	32	75	30	29	51	48	25
	Black	109	10.3	65	44	4	35	16	10	20	17	7
	Total	459	6.3	275	184	43	131	53	48	77	72	35
Infectious Diseases	White	14	0.3	7	7	0	0	0	7	4	1	2
(A00-B99, P35-P39)	Black	5	0.5	2	3	0	0	0	2	3	0	0
	Total	21	0.3	11	10	0	0	1	10	7	1	2
Nervous System Diseases	White	7	0.1	2	5	0	0	2	0	2	2	1
(G00-G98)	Black	0	0.0	0	0	0	0	0	0	0	0	0
	Total	7	0.1	2	5	0	0	2	0	2	2	1
Circulatory System Diseases	White	7	0.1	0	7	0	0	0	0	1	5	1
(100-199)	Black	1	0.1	0	1	0	0	0	0	0	1	0
	Total	9	0.1	0	9	0	0	0	0	1	6	2
Respiratory System Diseases	White	4	0.1	0	4	0	0	0	0	1	3	0
(J00-J99)	Black	3	0.3	0	3	0	0	0	0	2	1	0
	Total	8	0.1	0	8	0	0	0	0	4	4	0
Perinatal Conditions	White	100	1.9	96	4	24	50	13	9	0	3	1
(P00-P34, P40-P96)	Black	57	5.4	52	5	3	32	13	4	1	3	1
	Total	194	2.6	183	11	33	101	30	19	1	8	2
Congenital Anomalies	White	79	1.5	48	31	8	23	13	4	15	8	8
(Q00-Q99)	Black	12	1.1	8	4	1	3	3	1	2	1	1
	Total	100	1.4	63	37	10	28	18	7	18	9	10
Sudden Infant Death	White	16	0.3	1	15	0	0	0	1	7	8	0
Syndrome (R95)	Black	4	0.4	1	3	0	0	0	1	0	3	0
	Total	22	0.3	2	20	0	0	0	2	8	11	1
Unintentional Injuries	White	33	0.6	4	29	0	0	0	4	15	9	5
(V01-X59)	Black	14	1.3	1	13	0	0	0	1	7	5	1
	Total	51	0.7	5	46	0	0	0	5	22	18	6
Homicide (X85-Y09)	White	8	0.1	2	6	0	1	0	1	3	3	0
	Black	2	0.2	0	2	0	0	0	0	0	1	1
	Total	12	0.2	2	10	0	1	0	1	5	4	1
All Other Causes	White	22	0.4	6	16	0	1	2	3	3	6	7
	Black	11	1.0	1	10	0	0	0	1	5	2	3
	Total	35	0.5	7	28	0	1	2	4	9	9	10

#### Table 35B. Reported Marriages by Gender and County of Recording: Missouri, 2018

## MARRIAGE

• Tables 31-35C

	Male-	Female-	Male-	Not
Counties	Female	Female-	Male-	Stated
State Total	38,187	749	409	347
Adair	148	6	6	1
Andrew	112	6	0	0
Atchison	32	0	0	0
Audrain	152	2	0	0
Barry	154	0	2	5
Barton	80	1	2	0
Bates	76	1	0	22
Benton	94	0	1	0
Bollinger	68	0	1	1
Boone	1,046	23	11	0
Buchanan	525	0	0	0
Butler	298	4	3	0
Caldwell	45	0	0	0
Callaway	195	1	1	0
Camden	313	8	2	0
Cape Girardeau	517	16	3	1
Carroll	58	2	0	0
Carter	37	0	1	0
Cass	580	9	3	0
Cedar	77	0	1	0
Chariton	39	0	0	0
Christian	491	3	3	0
Clark	40	1	0	0
Clay	1,381	28	14	0
Clinton	100	2	0	0
Cole	560	5	4	0
Cooper	95	4	1	0
Crawford	157	1	3	0
Dade	12	0	0	7
Dallas	89	0	1	0
Daviess	44	3	1	34
DeKalb	51	0	0	0
Dent	89	1	0	0
Douglas	76	1	0	0
Dunklin	199	3	0	0
Franklin	663	10	6	0
Gasconade	108	1	0	1
Gentry	40	0	1	0

Counties	Male- Female	Female- Female	Male- Male	Not Stated
Greene	2,232	65	35	0
Grundy	33	0	1	27
Harrison	64	0	0	0
Henry	149	2	2	0
Hickory	44	1	2	0
Holt	22	1	0	4
Howard	45	2	1	1
Howell	319	4	0	0
Iron	44	1	0	0
Jackson	5,533	159	110	0
Jasper	887	15	3	0
Jefferson	1,060	20	9	1
Johnson	334	3	5	0
Knox	26	0	0	0
Laclede	276	1	1	0
Lafayette	173	2	4	1
Lawrence	253	4	1	5
Lewis	47	2	0	0
Lincoln	335	4	0	0
Linn	57	1	0	0
Livingston	122	1	0	0
Macon	91	3	0	1
Madison	77	0	0	0
Maries	44	0	0	0
Marion	236	3	0	0
McDonald	170	3	0	1
Mercer	28	0	1	1
Miller	141	3	1	0
Mississippi	94	1	2	0
Moniteau	75	1	0	0
Monroe	30	0	0	1
Montgomery	56	0	0	0
Morgan	135	0	1	0
New Madrid	90	2	1	0
Newton	379	4	1	0
Nodaway	119	2	0	0
Oregon	51	0	0	0
Osage	74	3	0	0
Ozark	30	0	1	7

Counties	Male- Female	Female- Female	Male- Male	Not Stated
Pemiscot	76	0	0	1
Perry	61	1	0	66
Pettis	315	8	1	0
Phelps	278	3	2	1
Pike	96	2	1	0
Platte	555	14	6	0
Polk	232	4	1	0
Pulaski	491	11	1	0
Putnam	14	0	0	14
Ralls	49	2	1	0
Randolph	163	1	0	0
Ray	49	3	0	93
Reynolds	38	0	0	0
Ripley	92	4	1	1
Saline	136	0	1	1
Schuyler	27	0	0	1
Scotland	37	0	0	0
Scott	248	0	2	0
Shannon	36	2	0	0
Shelby	37	0	0	0
St. Charles	2,216	42	13	0
St. Clair	24	0	0	16
St. Francois	502	8	7	1
St. Louis City	2,080	60	55	18
St. Louis County	5,228	116	56	5
Ste. Genevieve	109	0	0	0
Stoddard	195	2	0	0
Stone	165	0	0	0
Sullivan	24	0	0	4
Taney	658	8	2	1
Texas	132	0	0	0
Vernon	162	0	1	0
Warren	233	1	1	1
Washington	146	1	1	0
Wayne	85	0	0	0
Webster	264	1	0	0
Worth	12	0	0	1
Wright	106	0	3	0

Table 42A. Reported Dissolutions and Annulments by County of Recording with Rates per 1,000 Population: Missouri, 2018

### DIVORCE

Tables 36-42B

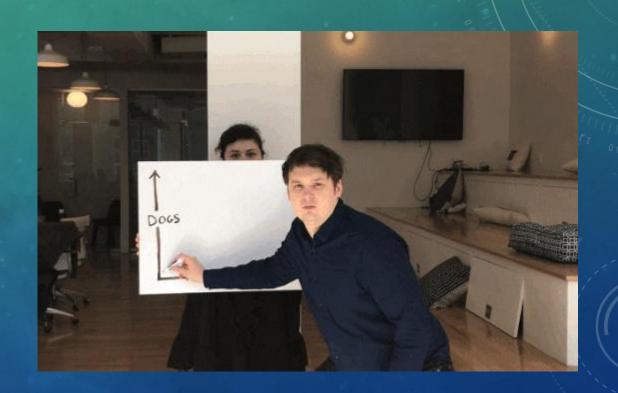
Counties	Population	Decrees	Rate
State Total	6,126,452	18,630	3.0
Adair	25,339	58	2.3
Andrew	17,607	150	8.5
Atchison	5,171	19	3.7
Audrain	25,473	72	2.8
Barry	35,886	55	1.5
Barton	11,798	40	3.4
Bates	16,320	50	3.1
Benton	19,278	80	4.1
Bollinger	12,169	32	2.6
Boone	180,005	494	2.7
Buchanan	88,571	203	2.3
Butler	42,639	238	5.6
Caldwell	9,108	17	1.9
Callaway	44,889	137	3.1
Camden	45,815	134	2.9
Cape Girardeau	78,753	296	3.8
Carroll	8,743	24	2.7
Carter	6,054	24	4.0
Cass	104,954	276	2.6
Cedar	14,165	59	4.2
Chariton	7,451	17	2.3
Christian	86,983	364	4.2
Clark	6,842	24	3.5
Clay	246,365	798	3.2
Clinton	20,470	29	1.4
Cole	76,796	100	1.3
Cooper	17,603	60	3.4
Crawford	23,957	112	4.7
Dade	7,569	18	2.4
Dallas	16,762	40	2.4
Daviess	8,313	16	1.9
DeKalb	12,630	27	2.1
Dent	15,441	68	4.4
Douglas	13,373	43	3.2
Dunklin	29,423	110	3.7
Franklin	103,670	343	3.3
Gasconade	14,705	53	3.6
Gentry	6,628	82	12.4
-	-,		

Counties	Population	Decrees	Rate
Greene	291,923	1,202	4.1
Grundy	9,914	37	3.7
Harrison	8,414	38	4.5
Henry	21,792	87	4.0
Hickory	9,509	26	2.7
Holt	4,404	13	3.0
Howard	10,137	26	2.6
Howell	40,076	200	5.0
Iron	10,177	30	2.9
Jackson	700,307	1,725	2.5
Jasper	120,636	606	5.0
Jefferson	224,347	525	2.3
Johnson	53,652	182	3.4
Knox	3,947	9	2.3
Laclede	35,713	153	4.3
Lafayette	32,598	102	3.1
Lawrence	38,359	86	2.2
Lewis	9,855	24	2.4
Lincoln	57,686	143	2.5
Linn	12,037	40	3.3
Livingston	15,146	74	4.9
Macon	15,153	66	4.4
Madison	12,188	57	4.7
Maries	8,769	25	2.9
Marion	28,592	132	4.6
McDonald	23,078	89	3.9
Mercer	3,641	14	3.8
Miller	25,336	80	3.2
Mississippi	13,336	52	3.9
Moniteau	16,121	54	3.3
Monroe	8,664	26	3.0
Montgomery	11,534	33	2.9
Morgan	20,358	53	2.6
New Madrid	17,296	50	2.9
Newton	58,266	179	3.1
Nodaway	22,304	58	2.6
Oregon	10,541	28	2.7
Osage	13,714	31	2.3
Ozark	9,017	32	3.5

Counties	Population	Decrees	Rate
Pemiscot	16,272	70	4.3
Perry	19,150	62	3.2
Pettis	42,542	203	4.8
Phelps	44,732	175	3.9
Pike	18,504	56	3.0
Platte	102,985	388	3.8
Polk	32,201	101	3.1
Pulaski	52,014	161	3.1
Putnam	4,757	20	4.2
Ralls	10,212	44	4.3
Randolph	24,763	98	4.0
Ray	22,883	64	2.8
Reynolds	6,254	17	2.7
Ripley	13,401	83	6.2
Saline	22,895	56	2.4
Schuyler	4,599	11	2.4
Scotland	4,966	11	2.2
Scott	38,458	164	4.3
Shannon	8,189	32	3.9
Shelby	6,050	29	4.8
St. Charles	399,182	1,266	3.2
St. Clair	9,395	30	3.2
St. Francois	66,692	248	3.7
St. Louis City	302,838	434	1.4
St. Louis County	996,945	2,470	2.5
Ste. Genevieve	17,888	54	3.0
Stoddard	29,206	176	6.0
Stone	31,749	98	3.1
Sullivan	6,221	20	3.2
Taney	55,852	196	3.5
Texas	25,571	76	3.0
Vernon	20,528	77	3.8
Warren	34,711	83	2.4
Washington	24,943	83	3.3
Wayne	13,122	41	3.1
Webster	39,109	137	3.5
Worth	2,040	70	34.3
Wright	18,378	77	4.2

## HOW CAN YOU USE MVS DATA?

- Trend analysis for your county
- Identify areas of concern
- Compare to state or neighboring counties
- Evaluation of prevention programs



### HOW CAN YOU FIND MVS?

https://health.mo.gov/data/vitalstatistics/data.php

Data and Surveillance Systems



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### **Data & Statistical Reports**

DHSS Home » Data & Statistics » vitalstatistics » Data & Statistics

### "√ Annual Reports (Historical editions can be found on the EPARC webpage @.)

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	2010 🙆 [Grayscale 🙆] Print-Friendly	2000 🙆
	2009 🙆	1999 🙆

Influenza Lead Poisoning Youth Tobacco Survey (YTS)

## OTHER VS DATA RESOURCES

- MOPHIMS
- Focus Articles
- Call/e-mail me, we can help!





# THANK YOU!

- Contact information:
  - Elizabeth.McCarthy@health.mo.gov
  - 573-751-6206

